



PATENT  
6057-54808

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Bhupal Dharia  
Patent Number: 7,212,515  
Issue Date of Patent: 05-01-2007  
Application Number: 09/836,752  
Filing Date: 04-17-2001

Title of Invention: FAST  
MACRODIVERSITY SWITCHING  
WITH INTERLEAVING IN  
WIRELESS NETWORKS

Atty. Dkt. No: 6057-54808

****CERTIFICATE OF MAILING****	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.	
B. Noël Kivlin	
Printed Name	
<u>B. Noël Kivlin</u>	<u>12-14-07</u>
Signature	Date

TRANSMITTAL OF POWER OF ATTORNEY AND  
NOTICE OF CHANGE OF ADDRESS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Please find attached a Power of Attorney with regard to the above-identified patent application. Applicant respectfully requests the Commissioner to change the correspondence address for the above identified patent application. The old correspondence address was:

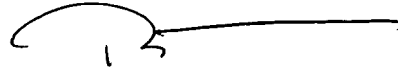
Berkeley Law Technology Group  
1700 N.W. 167th Place Suite 240  
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The new correspondence address is:

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If there are any questions regarding this matter, please contact me at the telephone number provided below.

Respectfully submitted,

A handwritten signature in black ink, consisting of a large, sweeping loop followed by a horizontal line that ends in a small arrowhead.

B. Noël Kivlin  
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ATTORNEY FOR APPLICANTS

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Date: 12-14-07



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### Assignments on the Web > Patent Query

## Patent Assignment Abstract of Title

**NOTE: Results display only for issued patents and published applications.  
For pending or abandoned applications please consult USPTO staff.**

### Total Assignments: 5

Patent #: 7212515

Issue Dt: 05/01/2007

Application #: 09836752

Filing Dt: 04/17/2001

Publication #: 20020090938

Pub Dt: 07/11/2002

Inventors: Bhupal Kanalyalal Dharia, Gopal Chhillariga, Lance Kazumi Uyehara

Title: FAST MACRODIVERSITY SWITCHING WITH INTERLEAVING IN WIRELESS NETWORKS

### Assignment: 1

Reel/Frame: 011701/0944

Recorded: 04/17/2001

Pages: 5

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: DHARIA, BHUPAL KANAIALAL

Exec Dt: 04/11/2001

CHILLARIGA, GOPAL

Exec Dt: 04/11/2001

UYEHARA, LANCE KAZUMI

Exec Dt: 04/11/2001

Assignee: MDIVERSITY INC.

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### Assignment: 2

Reel/Frame: 011976/0136

Recorded: 07/12/2001

Pages: 10

Conveyance: CORRECTION OF AN ASSIGNMENT RECORDED AT REEL 011701 FRAME 0944.

Assignors: DHARIA, BHUPAL KANAIALAL

Exec Dt: 05/30/2001

CHILLARIGA, GOPAL

Exec Dt: 05/31/2001

UYEHARA, LANCE KAZUMI

Exec Dt: 05/08/2001

Assignee: MDIVERSITY INC.

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### Assignment: 3

Reel/Frame: 012598/0079

Recorded: 02/11/2002

Pages: 7

Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Assignor: N DIVERSITY, INC.

Exec Dt: 09/17/2001

Assignee: MOBILITY NETWORK SYSTEMS, INC.

150 CHARCOT AVE.

SAN JOSE, CALIFORNIA 95131

Correspondent: MOBILITY NETWORK SYSTEMS INC.

JUDY LINDO

150 CHARCOT AVE.

SAN JOSE, CA 95131

### Assignment: 4

**Reel/Frame:** 014462/0589**Recorded:** 09/08/2003**Pages:** 3**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** MOBILITY NETWORK SYSTEMS INC.**Exec Dt:** 06/24/2003**Assignee:** PENTECH FINANCIAL SERVICES, INC.310 W. HAMILTON AVE,  
SUITE 202  
CAMPBELL, CALIFORNIA 95008**Correspondent:** RYDER IP LAW, PC  
DOUGLAS J. RYDER  
3669 CONCORD ROAD  
DOYLESTOWN, PA 18901**Assignment: 5****Reel/Frame:** 014484/0037**Recorded:** 09/12/2003**Pages:** 4**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** PENTECH FINANCIAL SERVICES, INC.**Exec Dt:** 07/22/2003**Assignee:** NORTHSTAR ACQUISITIONS, LLC280 VALLEY STREET  
LOS ALTOS, CALIFORNIA 94022**Correspondent:** RYDER IP LAW, PC  
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**POWER OF ATTORNEY; STATEMENT UNDER 37 C.F.R. § 3.73**

Northstar Acquisitions LLC ("Assignee"), a Delaware limited liability company having a place of business at 2215-B Renaissance Drive, Suite 5, Las Vegas, NV 89119, states that it is the assignee of the entire right, title, and interest in and to the patent applications and/or patents identified in the Appendix ("the Patent Properties"). Assignee has attached, for the Patent Properties, the following documentary evidence of the chain of title and/or information specifying where documentary evidence of a chain of title from the original owner to the Assignee is recorded in the assignment records of the USPTO. *See Appendix.*

With respect to the Patent Properties and all provisionals, reissues, reexaminations, divisionals, continuations, continuations-in-part thereof (whether currently filed or not), the Assignee, pursuant to 37 C.F.R. §§ 1.36 and 3.71, hereby revokes all powers of attorney previously given and appoints

the practitioners associated with the **Customer Number 35690**

to act on Assignee's behalf before the United States Patent and Trademark Office. This appointment is effective only so long as these practitioners remain with the firm associated with the Customer Number listed above.

Pursuant to 37 C.F.R. § 3.71, the assignee hereby states that prosecution of the Patent Properties is to be conducted to the exclusion of the inventor(s).

The undersigned is a representative authorized to act on behalf of the assignee.

Assignee

Northstar Acquisitions LLC  
2215-B Renaissance Drive, Suite 5  
Las Vegas, NV 89119

Dated: 19 OCT 2007

By: 

Name: Julia Ceffalo

Title: Authorized Person

# APPENDIX

## Issued Patents

Patent Number	Title	Issue Date	Recordation Information
6987793	PREDICTIVE COLLISION AVOIDANCE IN MACRODIVERSE WIRELESS NETWORKS WITH FREQUENCY HOPPING USING SWITCHING	01/17/2006	<p>Reel/Frame: 011971/0165  Assignors: DHAR, NAVEEN; UYEHARA, LANCE KAZUMI; GHOSHTAGORE, UJJAL KUMAR; KOEPF, GERHARD ALBERT; ZIAO, JINGQING  Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6987793	PREDICTIVE COLLISION AVOIDANCE IN MACRODIVERSE WIRELESS NETWORKS WITH FREQUENCY HOPPING USING SWITCHING	01/17/2006	<p>Reel/Frame: 011971/0165  Assignors: DHAR, NAVEEN; UYEHARA, LANCE KAZUMI; GHOSHTAGORE, UJJAL KUMAR; KOEPF, GERHARD ALBERT; ZIAO, JINGQING  Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p>

			<p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
7010015	VIRTUAL CELL MAPPING IN MACRODIVERSE WIRELESS NETWORKS WITH FREQUENCY HOPPING	03/07/2006	<p>Reel/Frame: 014455/0191  Assignor: M DIVERSITY INC.  Assignee: MOBILITY NETWORK SYSTEMS INC.</p> <p>Reel/Frame: 012206/0380  Assignors: HERVEY, MORRIS MARVIN; GHOSHGATORE, UJJAL KUMAR; SOMESEKHARA, ARCHANA  Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
7020115	FAST MACRODIVERSITY SWITCHING WITH TIME MANAGEMENT IN WIRELESS NETWORKS	03/28/2006	<p>Reel/Frame: 011900/0351  Assignors: CHILLARIGA, GOPAL; DHARIA, BHUPAL KANAIYALAL; KOEPF, GERHARD ALBERT; UYEHARA, LANCE KAZUMI  Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL</p>

			<p>SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
7194017	VIRTUAL CELL MAPPING IN MACRODIVERSE WIRELESS NETWORKS WITH FREQUENCY HOPPING	03/20/2007	<p>Reel/Frame: 018863/0488  Assignors: HERVEY, JR., MORRIS MARVIN; GHOSHTAGORE, UJAL KUMAR; SOMASEKHARA, ARCHANA  Assignee: M DIVERSITY, INC.</p> <p>Reel/Frame: 018833/0093  Assignor: M DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 018832/0560  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 018832/0569  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
7212515	FAST MACRODIVERSITY SWITCHING WITH INTERLEAVING IN WIRELESS NETWORKS	05/01/2007	<p>Reel/Frame: 011701/0944  Assignors: DHARIA, BHUPAL KANAIYALAL; CHILLARIGA, GOPAL; UYEHARA, LANCE KAZUMI  Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 011976/0136  Assignors: DHARIA, BHUPAL KANAIYALAL; CHILLARIGA, GOPA; UYEHARA, LANCE KAZUMI  Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 014462/0589 Recorded:  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>



7177298	DYNAMIC CHANNEL ALLOCATION IN MULTIPLE-ACCESS COMMUNICATION SYSTEMS	02/13/2007	<p>Reel/Frame: 011714/0192  Assignors: CHILLARIGA, GOPAL;  KAUSHAL, ROHIT; DHARIA, BHUPAL  KANAIYALAL; UYEHARA, LANCE  KAZUMI; KOEPF, ALBERT GERHARD;  RAACK, KEVIN DEAN;  GHOSHTAGORE, UJJAL KUMAR  Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 014455/0191  Assignor: M DIVERSITY INC.  Assignee: MOBILITY NETWORK  SYSTEMS INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK  SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK  SYSTEMS, INC.  Assignee: PENTECH FINANCIAL  SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK  SYSTEMS INC.  Assignee: PENTECH FINANCIAL  SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL  SERVICES, INC.  Assignee: NORTHSTAR  ACQUISITIONS, LLC</p>
5715516	METHOD AND APPARATUS FOR WIRELESS COMMUNICATION EMPLOYING COLLECTOR ARRAYS	02/03/1998	<p>Reel/Frame: 007776/0361  Assignors: HOWARD, DAVID  AMUNDSON; SMITH, BRUCE DENIS;  COATES, KAREN EVELYN;  VASTANO, JOHN ANDREW  Assignee: CELLULAR TELECOM, LTD</p> <p>Reel/Frame: 007876/0715  Assignors: HOWARD, DAVID  AMUNDSON; SMITH, BRUCE DENIS;  COATES, KAREN EVELYN;  VASTANO, JOHN ANDREW  Assignee: CELLULAR TELECOM, LTD.</p> <p>Reel/Frame: 009214/0673  Assignor: CELLULAR TELECOM  LIMITED  Assignee: SILICON WIRELESS  LIMITED</p> <p>Reel/Frame: 009798/0292  Assignor: SILICON WIRELESS  LIMITED</p>

			<p>Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501 Assignor: SILICON WIRELESS LIMITED Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145 Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p>
5805576	METHOD AND APPARATUS FOR TDMA WIRELESS COMMUNICATION EMPLOYING COLLECTOR ARRAYS FOR RANGE EXTENSION	09/08/1998	<p>Reel/Frame: 008185/0435 Assignors: WORLEY, WILLIAM SPENCER, III; HOWARD, DAVID AMUNDSON; COATES, KAREN EVELYN; VASTANO, JOHN ANDREW Assignee: CELLULAR TELECOM, LTD.</p> <p>Reel/Frame: 009214/0673 Assignor: CELLULAR TELECOM LIMITED Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292 Assignor: SILICON WIRELESS LIMITED Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501 Assignor: SILICON WIRELESS LIMITED Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p>

			<p>Reel/Frame: 010609/0745  Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)  Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145  Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE  Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6112058	METHOD AND APPARATUS FOR WIRELESS COMMUNICATION EMPLOYING CONFIDENCE METRIC PROCESSING FOR BANDWIDTH REDUCTION	08/29/2000	<p>Reel/Frame: 008797/0824  Assignors: WALTERS, ANDREW JOHN; WALLERJUS, JOHN WALKER; VASTANO, JOHN ANDREW; UYEHARA, LANCE KAZUMI  Assignee: CELLULAR TELECOM, LTD.</p> <p>Reel/Frame: 009214/0673  Assignor: CELLULAR TELECOM LIMITED  Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292  Assignor: SILICON WIRELESS LIMITED  Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501  Assignor: SILICON WIRELESS LIMITED  Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677  Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)  Assignee: SC-WIRELESS, INC.</p>

			<p>Reel/Frame: 010609/0745  Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)  Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145  Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE  Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.  310 W. HAMILTON AVE,</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6131034	METHOD AND APPARATUS FOR COLLECTOR ARRAYS IN WIRELESS COMMUNICATIONS SYSTEMS	10/10/2000	<p>Reel/Frame: 009214/0673  Assignor: CELLULAR TELECOM LIMITED  Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009554/0514  Assignors: MCLAUGHLIN, MICHAEL DAVID; RAACK, KEVIN DEAN; WALLERIUS, JOHN WALKER; SMITH, BRUCE DENIS; COATES, KAREN EVELYN; VASTANO, JOHN ANDREW; HOWARD, DAVID AMUNDSON  Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292  Assignor: SILICON WIRELESS LIMITED  Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501  Assignor: SILICON WIRELESS LIMITED  Assignee: SC-WIRELESS INC</p>

			<p>Reel/Frame: 010567/0677  Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)  Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745  Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)  Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145  Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE  Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6137784	METHOD AND APPARATUS FOR WIRELESS COMMUNICATION EMPLOYING CONTROL FOR CONFIDENCE METRIC BANDWIDTH REDUCTION	10/24/2000	<p>Reel/Frame: 009214/0673  Assignor: CELLULAR TELECOM LIMITED  Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009222/0842  Assignors: WALLERIUS, JOHN WALKER; WALTERS, ANDREW JOHN; VASTANO, JOHN ANDREW  Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292  Assignor: SILICON WIRELESS LIMITED  Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501  Assignor: SILICON WIRELESS LIMITED  Assignee: SC-WIRELESS INC</p>

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6192038	METHOD AND APPARATUS FOR WIRELESS COMMUNICATION EMPLOYING AGGREGATION FOR DIGITAL SIGNALS	02/20/2001	<p>Reel/Frame: 008645/0043  Assignors: WALLERIUS, JOHN WALKER; WALTERS, ANDREW JOHN; VASTANO, JOHN ANDREW  Assignee: CELLULAR TELECOM, LTD.</p> <p>Reel/Frame: 009214/0673  Assignor: CELLULAR TELECOM LIMITED  Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292  Assignor: SILICON WIRELESS LIMITED  Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501  Assignor: SILICON WIRELESS LIMITED  Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677</p>

			<p>Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145 Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6212387	METHOD AND APPARATUS FOR COLLECTOR ARRAYS OF DIRECTIONAL ANTENNAS CO-LOCATED WITH ZONE MANAGERS IN WIRELESS COMMUNICATIONS SYSTEMS	04/03/2001	<p>Reel/Frame: 009214/0673 Assignor: CELLULAR TELECOM LIMITED Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009554/0094 Assignors: MCLAUGHLIN, MICHAEL DAVID; RAACK, KEVIN DEAN; WALLERIUS, JOHN WALKER; SMITH, BRUCE DENIS; COATES, KAREN EVELYN; VASTANO, JOHN ANDREW; HOWARD, DAVID AMUNDSON Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292 Assignor: SILICON WIRELESS LIMITED Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)</p>

			<p>Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745  Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)  Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145  Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE  Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.  150 CHARCOT AVE.  SAN JOSE, CALIFORNIA 95131</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6349094	METHOD AND APPARATUS FOR WIRELESS COMMUNICATIONS EMPLOYING CONTROL FOR BROADCAST TRANSMISSION	02/19/2002	<p>Reel/Frame: 011889/0840  Assignor: SC-WIRELESS INC.  Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 011889/0835  Assignors: VASTANO, JOHN ANDREW; UYEHARA, LANCE KAZUMI; GHOSHTAGORE, UJJAL KUMAR  Assignee: SC-WIRELESS INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK</p>



			<p>SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6041232	AGGREGATION OF SHAPED DIRECTIONAL RECEIVING ANTENNA ARRAY FOR IMPROVED LOCATION INFORMATION	03/21/2000	<p>Reel/Frame: 009214/0673 Assignor: CELLULAR TELECOM LIMITED Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009504/0853 Assignor: JENNINGS, EARLE WILLIS, III Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009514/0853 Assignor: JENNINGS, III, EARLE WILLIS Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292 Assignor: SILICON WIRELESS LIMITED Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501 Assignor: SILICON WIRELESS LIMITED Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145 Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE Assignee: MIVERSITY INC.</p> <p>Reel/Frame: 014455/0191 Assignor: MIVERSITY INC. Assignee: MOBILITY NETWORK SYSTEMS INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC.</p>

			<p>Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6108385	METHOD AND APPARATUS FOR REDUCING INTERMODULATION DISTORTION IN DIGITAL WIDEBAND TRANSMISSION SYSTEMS	08/22/2000	<p>Reel/Frame: 008155/0379 Assignor: WORLEY, WILLIAM SPENCER III Assignee: CELLULAR TELECOM, LTD.</p> <p>Reel/Frame: 009214/0673 Assignor: CELLULAR TELECOM LIMITED Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292 Assignor: SILICON WIRELESS LIMITED Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501 Assignor: SILICON WIRELESS LIMITED Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745 Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY) Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145 Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p>

			<p>Reel/Frame: 014462/0589  Assignor: MOBILITY NETWORK SYSTEMS INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037  Assignor: PENTECH FINANCIAL SERVICES, INC.  Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
6173191	IMPROVED LOCALIZATION OF SHAPED DIRECTIONAL TRANSMITTING AND TRASMITTING/RECEIVING ANTENNA ARRAY	01/09/2001	<p>Reel/Frame: 009214/0673  Assignor: CELLULAR TELECOM LIMITED  Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009504/0816  Assignor: JENNINGS, EARLE WILLIS III  Assignee: SILICON WIRELESS LIMITED</p> <p>Reel/Frame: 009798/0292  Assignor: SILICON WIRELESS LIMITED  Assignee: 2M INVEST A/S, AS AGENT</p> <p>Reel/Frame: 010144/0501  Assignor: SILICON WIRELESS LIMITED  Assignee: SC-WIRELESS INC</p> <p>Reel/Frame: 010567/0677  Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)  Assignee: SC-WIRELESS, INC.</p> <p>Reel/Frame: 010609/0745  Assignor: 2M INVEST A/S, AS AGENT (RELEASING PARTY)  Assignee: SC-WIRELESS, INC., A DELAWARE CORPORATION</p> <p>Reel/Frame: 011219/0145  Assignor: SC-WIRELESS INC., A CORPORATION OF DELAWARE  Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079  Assignor: N DIVERSITY, INC.  Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011  Assignor: MOBILITY NETWORK SYSTEMS, INC.  Assignee: PENTECH FINANCIAL SERVICES, INC.</p>

			Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.  Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC
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### Applications

Application Number	Title	Filing Date	Recordation Information
09/836752	FAST MACRODIVERSITY SWITCHING WITH INTERLEAVING IN WIRELESS NETWORKS	04/17/2001	Reel/Frame: 011701/0944 DOCUMENT FOR DETAILS): Assignors: DHARIA, BHUPAL KANAIYALAL; CHILLARIGA, GOPAL;UYEHARA, LANCE KAZUMI Assignee: M DIVERSITY INC.  Reel/Frame: 011976/0136 Assignors: DHARIA, BHUPAL KANAIYALAL;CHILLARIGA, GOPAL;UYEHARA, LANCE KAZUMI Assignee: M DIVERSITY INC.  Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.  Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.  Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC
09/879,603	FAST MACRODIVERSITY SWITCHING WITH TIME MANAGEMENT IN WIRELESS NETWORKS	06/12/2001	Reel/Frame: 011900/0351 Assignors: CHILLARIGA, GOPAL; DHARIA, BHUPAL KANAIYALAL; KOEPF, GERHARD ALBERT;

			<p>UYEHARA, LANCE KAZUMI Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 012598/0079 Assignor: N DIVERSITY, INC. Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589 Assignor: MOBILITY NETWORK SYSTEMS INC. Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
11/507789	Dynamic channel allocation in multiple-access communication systems	08/21/2006	<p>Reel/Frame: 018222/0672 Assignors: CHILLARGIA, GOPAL; KAUSHAL, ROHIT; DHARIA, BHUPAL; GHOSHTAGORE, UJJAL; UYEHARA, LANCE; KOEPF, GERHARD; RAACK, KEVIN Assignee: M DIVERSITY INC.</p> <p>Reel/Frame: 018222/0364 Assignor: M DIVERSITY INC. Assignee: MOBILITY NETWORK SYSTEMS INC.</p> <p>Reel/Frame: 018211/0410 Assignor: MOBILITY NETWORK SYSTEMS, INC. Assignee: PENTECH FINANCIAL SERVICES INC.</p> <p>Reel/Frame: 018222/0226 Assignor: PENTECH FINANCIAL SERVICES, INC. Assignee: NORTHSTAR ACQUISITIONS LLC</p> <p>Reel/Frame: 018422/0764 Assignors: WARNER, ROBERT WINTERS, JACK Assignee: EIGENT TECHNOLOGIES LLC</p>
09/750592	System for fast macrodiversity switching in mobile wireless networks	12/28/2000	<p>Reel/Frame: 011703/0273 Assignors: DHARIA, BHUPAL KANAIYALAL; CHILLARIGA, GOPAL; GHOSHTAGORE, UJJAL KUMAR; KAUSHAL, ROHIT; KOEPF, ALBERT GERHARD; UYEHARA, LANCE</p>

		<p>KAZUMI</p> <p>Assignee: MDIVERSITY INC.</p> <p>Reel/Frame: 012598/0079</p> <p>Assignor: N DIVERSITY, INC.</p> <p>Assignee: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Reel/Frame: 013852/0011</p> <p>Assignor: MOBILITY NETWORK SYSTEMS, INC.</p> <p>Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014462/0589</p> <p>Assignor: MOBILITY NETWORK SYSTEMS INC.</p> <p>Assignee: PENTECH FINANCIAL SERVICES, INC.</p> <p>Reel/Frame: 014484/0037</p> <p>Assignor: PENTECH FINANCIAL SERVICES, INC.</p> <p>Assignee: NORTHSTAR ACQUISITIONS, LLC</p>
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# ORIGINAL

## ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Pentech Financial Services, Inc., a California corporation, having offices at 310 W. Hamilton Ave, Suite 202, Campbell, CA 95008 ("Assignor"), does hereby sell, assign, transfer and convey unto Northstar Acquisitions, LLC, a Delaware Corporation, having an office at 280 Valley St., Los Altos, CA 94022 ("Assignee") or its designees, all of Assignor's right, title and interest in and to the patent applications and patents listed below, any patents issuing on any patent applications listed in the attached document, entitled "Patents to be Assigned", the inventions disclosed in any of the foregoing, any and all counterpart United States, international and foreign patents, applications and certificates of invention based upon or covering any portion of the foregoing and all reissues, divisionals, renewals, extensions, provisionals, continuations and continuations-in-part of any of the foregoing (collectively "Patent Rights"):

Assignor represents, warrants and covenants that: (i) it is the sole owner, assignee and holder of record title to the Patent Rights identified above, (ii) it has obtained and properly recorded previously executed assignments for all patent applications and patents identified above as necessary to fully perfect its rights and title therein in accordance with governing law and regulations in each respective jurisdiction, and (iii) it has full power and authority to make the present assignment. Assignor shall indemnify and hold harmless Assignee for any breach of the foregoing.

Assignor further agrees to and hereby does sell, assign, transfer and convey unto Assignee all rights: (i) in and to causes of action and enforcement rights for the Patent Rights including all rights to pursue damages, injunctive relief and other remedies for past and future infringement of the Patent Rights, and (ii) to apply in any or all countries of the world for patents, certificates of invention or other governmental grants for the Patent Rights, including without limitation under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding. Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention which may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

Assignor will, at the reasonable request of Assignee and without demanding any further consideration therefor, do all things necessary, proper, or advisable, including without limitation the execution, acknowledgment and recordation of specific assignments, oaths, declarations and other documents on a country-by-country basis, to assist Assignee in obtaining, perfecting, sustaining, and/or enforcing the Patent Rights. Such assistance shall include providing, and obtaining from the respective inventors, prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, powers of attorney, specifications, declarations or other papers and other assistance reasonably necessary for filing patent applications, complying with any duty of disclosure, and conducting prosecution, reexamination, reissue, interference or other priority proceedings, opposition proceedings, cancellation proceedings, public use proceedings, infringement or other court actions and the like with respect to the Patent Rights.

The terms and conditions of this Assignment shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, its successor, assigns and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Campbell, CA, on July 22, 2003.

ASSIGNOR

By:



Norman H. Nelson

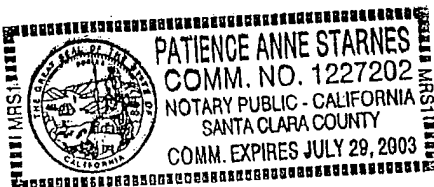
President & COO

**ACKNOWLEDGMENT**

State of California

County of Santa Clara)

On 7/22/03 before me, Patience Anne Starnes personally appeared Norman H. Nelson, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to within instrument and acknowledged to me that s/he executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument. WITNESS my hand and official seal.





## Exhibit A

### Patents to be Assigned

<i>Patent Number</i>	<i>Serial Number</i>	<i>Date Filed</i>	<i>Appl. Published</i>	<i>Date Issued</i>	<i>Patent Name</i>
5715516	08/ 544913	10/18/95		02/03/98	"Method and Apparatus for Wireless Communication Employing Collector Arrays"
5805576	08/ 634141	04/19/96		09/08/98	"Method and Apparatus for TDMA Wireless Communication Employing Collector Arrays for Range Extension"
6108385	08/ 679424	07/08/96		08/22/00	"Method and Apparatus for Reducing Intermodulation Distortion in Digital Wideband Transmission Systems"
6192038B1	08/ 801711	02/14/97		02/20/01	"Method and Apparatus for Wireless Communication Employing Aggregation for Digital Signals"
6137784	08/ 889881	07/03/97		10/24/00	"Method and Apparatus for Wireless Communication Employing Control of Confidence Metric Bandwidth Reduction"
6112058	08/ 866700	07/03/97		08/29/00	"Method and Apparatus for Wireless Communication Employing Confidence Metric Processing for Bandwidth Reduction"
6041232	08/ 997155	12/23/97		03/21/00	"Aggregation of Shaped Directional Receiving Antenna Array for Improved Location Information"
6173191	09/ 001370	12/31/97		01/09/01	"Improved Localization of Shaped Directional Transmitting and Transmitting/Receiving Antenna Array"
6131034	09/ 017189	02/02/98		10/10/00	"Method and Apparatus for Collector Arrays in Wireless Communication Systems"
6212387	09/ 017188	02/02/98		04/03/01	"Method and Apparatus for Collector Arrays of Directional Antennas Co-Located with Zone Managers in Wireless Communications Systems"
6349094	09/ 383160	08/25/99		02/19/02	"Method and Apparatus for Wireless Communication Employing Control for Broadcast Transmission" (FMS)
	09/ 753182	01/02/01	10/18/01		"Dynamic Channel Allocation in Multiple-Access Communications Systems"
	09/ 750592	12/28/00			"System for Fast Macrodiversity Switching in Mobile Wireless Networks" (ZM)
	09/ 836752	04/17/01	07/11/02		"Fast Macrodiversity Switching With Interleaving in Mobile Wireless Networks"
	09/ 879603	06/12/01			"Fast Macrodiversity Switching With Timing Management in Wireless Networks"
	09/ 899347	07/05/01	04/04/02		"Predictive Collision Avoidance in Macrodiverse Wireless Networks With Frequency Hopping Using Switching"
	09/ 962944	09/24/01			"Collision Avoidance in Wireless Networks With Frequency Hopping Using Virtual Cell Hopping Sequence Mapping"